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CLAIMS

1. An image forming apparatus for forming an image on a recording medium by ejecting a recording liquid to the recording medium at a recording part, the image forming apparatus comprising:

a conveyor belt for conveying the recording medium to the recording part, the conveyor belt satisfying a relation of $\gamma > \gamma_c$,

wherein γ (mN/m) is a static surface tension of the recording liquid at 25°C, and γ_c (mN/m) is a critical surface tension of the conveyor belt,

wherein the recording liquid contains a color material in a dispersed state.

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2. The image forming apparatus as claimed in claim 1, wherein the conveyor belt absorbs the recording medium thereto when conveying the recording medium.

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3. The image forming apparatus as claimed in claim 2, wherein the conveyor belt absorbs the recording medium by using electrostatic force.

4. The image forming apparatus as claimed in claim 1, further comprising a cleaning part for removing

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the recording liquid situated on the conveyor belt.

5. The image forming apparatus as claimed in claim 4, wherein the cleaning part is a porous member.

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6. A recording liquid for being ejected to a recording medium conveyed by a conveyor belt, the recording liquid comprising:

10 a color material in a dispersed state,
wherein the recording medium satisfies a relation of $\gamma > \gamma_c$,

wherein γ (mN/m) is a static surface tension of the recording liquid at 25°C, and γ_c (mN/m) is a critical surface tension of the conveyor belt.

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7. The recording liquid as claimed in claim 6, wherein the static surface tension of the recording liquid γ satisfies a relation of $\gamma \geq 20$.

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8. The recording liquid as claimed in claim 6, wherein the color material is a pigment.

9. The recording liquid as claimed in claim 6, further comprising a humectant.

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10. The recording liquid as claimed in claim 6, wherein the recording liquid at 25°C has a viscosity ranging from 1 mPa·sec to 30 mPa·sec.

5 11. A conveyor belt for conveying a recording medium to a recording part at which a recording liquid is ejected onto the recording medium, the conveyor belt comprising:

a belt part satisfying a relation of $\gamma > \gamma_c$,
10 wherein γ (mN/m) is a static surface tension of the recording liquid at 25°C, and γ_c (mN/m) is a critical surface tension of the belt part of the conveyor belt,

wherein the recording liquid contains a color
15 material in a dispersed state.

12. The conveyor belt as claimed in claim 11, wherein the belt part is formed of two or more layers.

20 13. The conveyor belt as claimed in claim 12, wherein at least one of the two or more layers is a charge adjustment layer.

14. The conveyor belt as claimed in claim 12,
25 wherein at least one of the two or more layers is a

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surface tension adjustment layer.

15. The conveyor belt as claimed in claim 12,
wherein at least one of the two or more layers is a
5 mechanical strength adjustment layer.

16. The conveyor belt as claimed in claim 12,
wherein at least one of the two or more layers is a
chemical protection layer.

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17. A recording liquid cartridge comprising:
an ink containing unit for containing the
recording liquid of claim 6.